

**Making
satellite
images
available to
conservation
managers**



Protected Area Archive

Satellite images can be of real benefit for conservation management; however, obstacles to finding and using the data limit access by this community. The Protected Area Archive (PAA) makes satellite images easily available by bundling image collections of areas of interest (often, but not always, Protected Areas) with simple and intuitive tools to utilize the data.

The intended audience is Protected Area and ecosystem managers; no knowledge of remote sensing or image processing is assumed. These collections and tools are distributed on CD so that no Internet connection is required.

Capabilities

November 2004 marks the release of Phase 1 at the IUCN World Conservation Congress in Bangkok. Later phases will add additional capabilities. Phase 1 capabilities include:

Viewable Images from these Sensors

- ASTER: 2000 to present
- Landsat: c. 2000
- Landsat: c. 1990
- Landsat: c. 1975

Image Finder

Displays overlays of image locations and protected areas so the user can easily find and display the images of interest

Roam and Zoom

To find and see features of interest within an image

Observing Change

To help see what is changing and where

Overlay Manager

To control the displayed overlays, such as country and PA boundaries, and user-supplied overlays

Measurement of Distance and Area

To determine the length of trails or roads, the size of management units, etc.

Image Annotation

Adding text, lines, polygons, etc., so an image can be used to tell a story and effectively communicate an issue

Image Adjustment

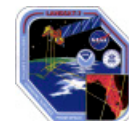
Simple functions to adjust contrast, brightness, etc.

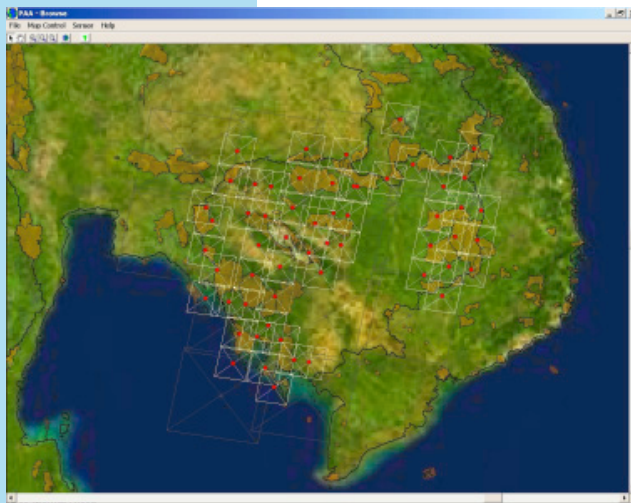
See reverse for sample screens.

*For more information go to
<http://asterweb.jpl.nasa.gov>
and click on the Protected Area
Archive link at the bottom.*



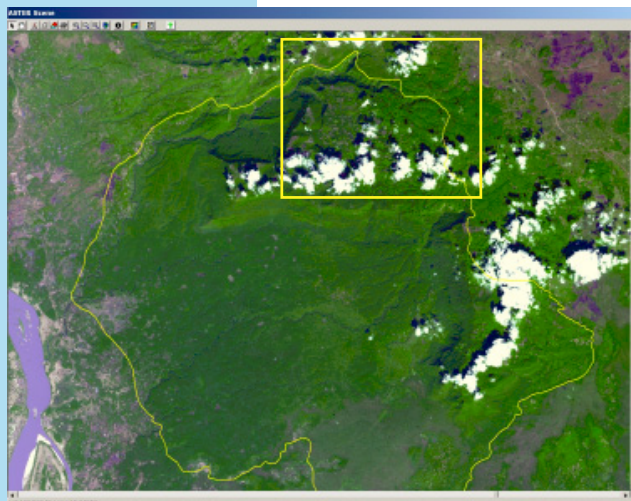
National Aeronautics and
Space Administration
Jet Propulsion Laboratory
California Institute of Technology
Pasadena, California





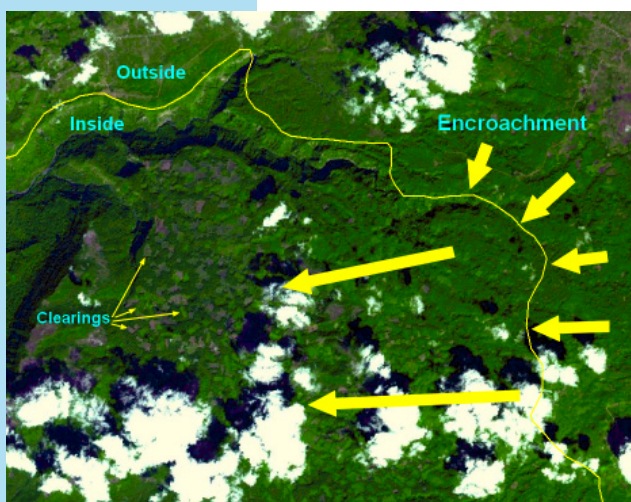
PA Image Collection

Screenshot showing the locations of scenes in this collection covering the PAs of Cambodia. Double clicking a box opens up the image for viewing. The "ASTER" layer is highlighted; a "Landsat" layer is faintly visible. The user can highlight any or all of the available layers.



Overlay Feature

Image of Dong Hua Sao National Reserved Forest in southern Lao PDR, with boundary overlay. This area has had a problem with agricultural encroachment from the surrounding lands to the northeast.



PAA Annotation Tool

An annotated image showing a close-up of an affected region of the park. Agricultural expansion did not stop at the park boundary, leading to extensive clearing inside the park. Intact forest is shown as the dark green areas between the clearings (to the left), and is completely missing from the center of the image to the boundary. This image was created using the PAA annotation tool.

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